

**ENVIRONMENTALLY SAFE ALKYLATION OF  
ALIPHATIC AND AROMATIC HYDROCARBONS WITH  
OLEFINS USING SOLID HF-EQUIVALENT CATALYSTS**

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**ABSTRACT**

A method of alkylating aliphatic or aromatic hydrocarbons with olefins using solid hydrogen fluoride-equivalent catalysts is described. Preferred catalysts comprise solid polymeric onium polyhydrogen fluoride complexes.